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Attorney Docket No.
A1682Q2-US-DIV

on 4/22/2004
Date

Francie S. LePore
Francie S. LePore

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Gabriel Iftime et al.

Group Art Unit:

Application No.: (not assigned yet)

Examiner:

Filed: (concurrently herewith)

For: COMPOUNDS OF FORMULA (6) TO STABILIZE LIQUID CRYSTAL DOMAINS

Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) and information listed on the attached PTO-1449 Form. One legible copy of each is attached to the PTO-1449 Form. It is respectfully requested that the references and information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of the above application (which is not a CPA), **OR** (b) before the mailing date of a first Office Action on the merits. *No certification or fee is required.*
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date **AND** after the date of the first Office Action on the merits, but before the mailing date of a Final Rejection, Notice of Allowance, or other action that closes prosecution. Please debit Xerox Corporation Deposit Account 24-0025 in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). *(A copy of this paper is attached.)*
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance; **AND**
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); **(OR)**

- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c), more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2)
- ☐ 4. This Information Disclosure Statement is being filed after the mailing date of a Final Rejection or Notice of Allowance, but before the payment of the Issue Fee. Please debit Xerox Corporation Deposit Account 24-0025 in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p) (A copy of this paper is attached); AND
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); (OR)
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2)
- ☐ 5. Per 37 C.F.R. 1.98(a)(3), a concise explanation of the relevance of each of any submitted item that is NOT in the English language is either enclosed herewith, or incorporated in the application specification.
- ☐ 6. A copy of an English language version of an above-referenced counterpart foreign application search report is attached.
- ☒ 7. Copies of some or all of the subject references were cited by, or submitted to the Office in related parent Application No. 10/319,876, filed 12/13/2002, which is relied upon under 35 U.S.C. §120. Thus, copies of these references are not attached ~~(except for copies of cited pending applications)~~. 37 C.F.R. §1.98(d).
- ☐ 8. A copy of each copending application recited in the parent application of paragraph 7 above, and/or a copy of other related copending applications, is enclosed.



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Date 04/22/2004

Form PTO-1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. A1682Q2-US-DIV	APPLICATION NO.
	APPLICANT Gabriel Iftime et al.	
	FILING DATE	GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE	CLASS	SUB CLASS
	6,061,107	5/9/00	Yang et al.	349	86
	6,103,431	8/15/00	Tamaoki et al.	430	20
	5,847,798	12/8/98	Yang et al.	349	169
	5,691,795	11/25/97	Doane et al.	349	169
	5,625,477	4/29/97	Wu et al.	349	35
	5,661,533	8/26/97	Wu et al.	349	169

FOREIGN PATENT DOCUMENTS

	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	TRANSLATION Y/N

OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)

	D.K. Yang et al., "Polymer-stabilized Cholesteric Textures," <i>Liquid Crystals in Complex Geometries Formed by polymer and porous networks</i> , pp. 103-142 (Published by Taylor & Francis Ltd. 1996).
	H. Yuan, "Bistable Reflective Cholesteric Displays," <i>Liquid Crystals in Complex Geometries Formed by polymer and porous networks</i> , pp. 265-280 (Published by Taylor & Francis Ltd. 1996).
	J. Kim et al., "White Reflective Displays from Polymer-Stabilized Cholesteric Textures," <i>SID</i> , p. 802-805 (1998).
	D.-K. Yang et al., "Cholesteric liquid crystal/polymer dispersion for haze-free light shutters," <i>Appl. Phys. Lett.</i> , Vol. 60, pp. 3102-3104 (June 1992).
	J. Nie et al., "Photocuring of mono- and di-functional (meth)acrylates with tris [2-(acryloyloxy)ethyl]isocyanurate," <i>European Polymer Journal</i> , Vol. 35, pp. 1491-1500 (1999).
	W.D. Cook, "Photopolymerization kinetics of dimethacrylates using the camphorquinone/amine initiator system," <i>Polymer</i> , Vol. 33, pp. 600-609 (1992).
	I. Dierking, "Polymer Network-Stabilized Liquid Crystals," <i>Adv. Mater.</i> , Vol. 12, pp. 167-181 (2000).
	D.-K. Yang et al., "Control of reflectivity and bistability in displays using cholesteric liquid crystals," <i>J. Appl. Phys.</i> , Vol. 76, pp. 1331-1333 (1994).
	E. Korenic et al., "Cholesteric Liquid Crystal Flakes - A New Form of Domain," <i>LLE Review</i> , Vol. 74, pp. 139-149 (1998).
	N. Tamaoki et al., "Rewritable Full-Color Recording in a Photon Mode," <i>Adv. Mater.</i> , Vol. 12, pp. 94-97 (2000).
	W. Schuddeboom et al., "Excited-State Dipole Moments of Dual Fluorescent 4-(Dialkylamino)benzonitriles. Influence of Alkyl Chain Length and Effective Solvent Polarity," <i>J. Phys. Chem.</i> , Vol. 96, pp. 10809-10819 (1992).

EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. A1682Q2-US-DIV	APPLICATION NO.
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	FILING DATE	GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE	CLASS	SUB CLASS
	5,698,359	12/16/97	Yanus et al.	430	132
	6,115,017	9/5/00	Mikami et al.	345	92
	4,022,706	5/10/77	Davis	252	299
	3,862,976	1/28/75	Booth	260	465 D
	3,952,106	4/20/76	Booth	424	300

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)

	Gabriel Iftime et al., U.S. Application No. 10/319,870, titled "DOMAIN SIZE CONTROLLED LIQUID CRYSTALS", filed 12/13/2002 (Attorney Docket No. D/A1682).
	Gabriel Iftime et al., U.S. Application No. 10/319,890, titled "COMPOUNDS OF FORMULA (1) TO STABILIZE LIQUID CRYSTAL DOMAINS", filed 12/13/2002 (Attorney Docket No. D/A1682Q).
	Gabriel Iftime et al., U.S. Application No. 10/319,874, titled "COMPOUNDS OF FORMULAS (3) AND (4) TO STABILIZE LIQUID CRYSTAL DOMAINS", filed 12/13/2002 (Attorney Docket No. D/A1682Q1).
	Gabriel Iftime et al., U.S. Application No. 10/319,876, titled "COMPOUNDS OF FORMULAS (5) AND (6) TO STABILIZE LIQUID CRYSTAL DOMAINS", filed 12/13/2002 (Attorney Docket No. D/A1682Q2).
	Gabriel Iftime et al., U.S. Application No. 10/319,918, titled "LIQUID CRYSTAL COMPOSITIONS INCLUDING DISPERSANT", filed 12/13/2002 (Attorney Docket No. D/A2549).
	Gabriel Iftime et al., U.S. Application No. 10/319,917, titled "LIQUID CRYSTAL COMPOSITIONS INCLUDING NON-DIPOLAR MONOMER", filed 12/13/2002 (Attorney Docket No. D/A2551).
	Gabriel Iftime et al., U.S. Application No. 10/319,878, titled "COMPOUNDS OF FORMULA (2) TO STABILIZE LIQUID CRYSTAL DOMAINS", filed 12/13/2002 (Attorney Docket No. D/A2440).
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